## FAULT-TOLERANT RISC MICROPROCESSOR FOR SPACECRAFT APPLICATIONS

CONSTANTIN TIMOC **SPACEBORNE** INC.

> HARRY BENZ NASA/LaRC

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CONTROL UNIT HARDHI RED (NOT MICROPROGRAMMED)

ADDRESS ADDER

PC INCREMENTER/MUX

GENERAL REGISTERS (32 × 32)

ALU

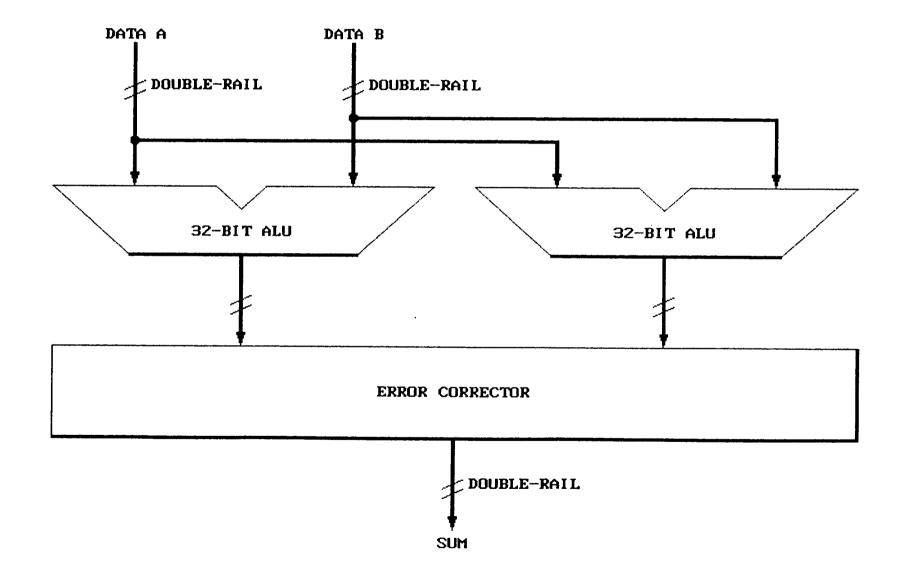
SHIFTER

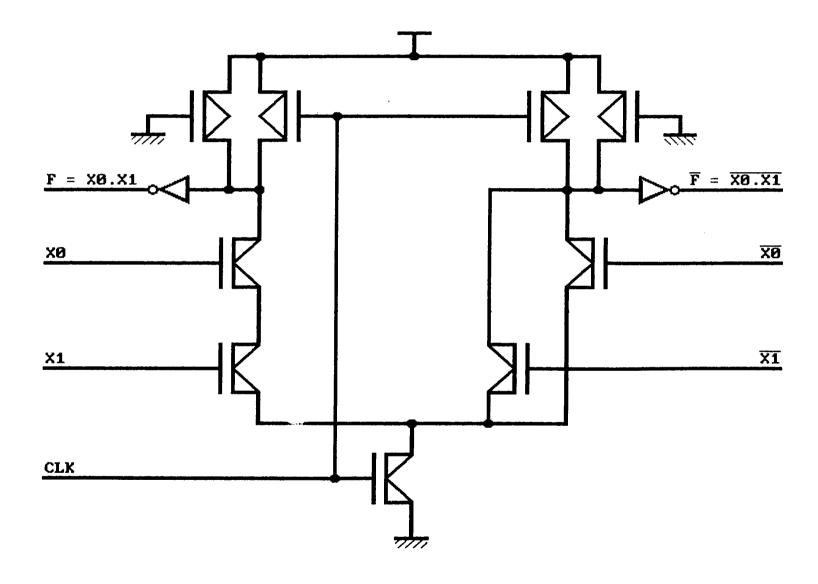
MULTIPLIER/DIVIDER

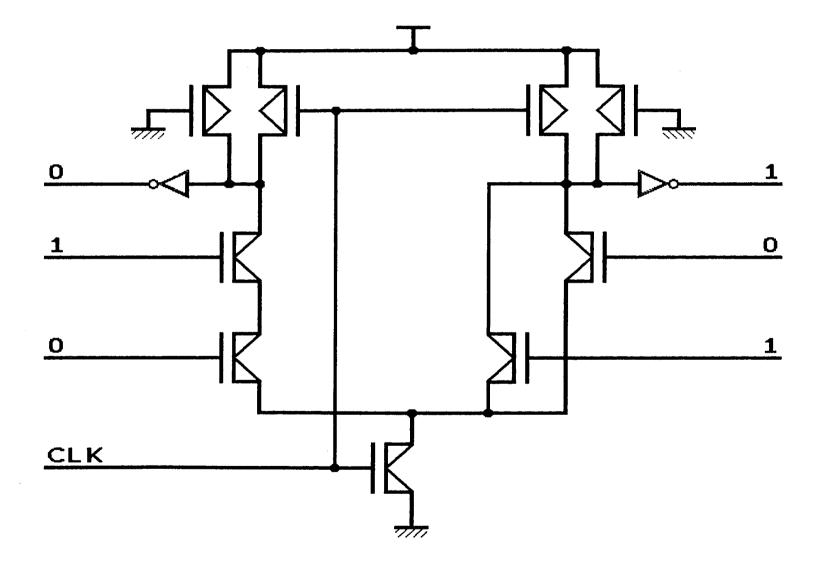
INTERRUPT REGISTERS

PRIORITY INTERRUPT LOGIC

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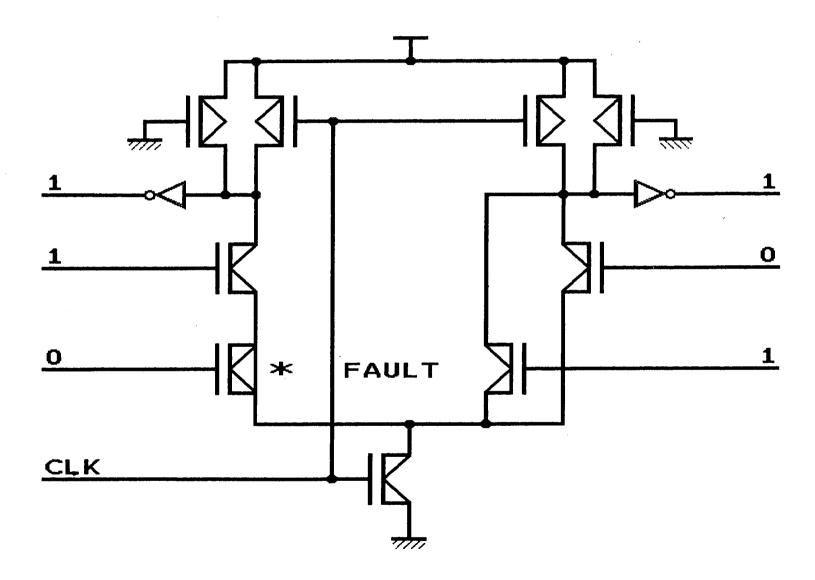






## DOUBLE RAIL CMOS LOGIC (TRANSISTOR STUCK-ON)

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